



COMMUNITY DEVELOPMENT DEPARTMENT PLANNING DIVISION

BIOLOGICAL SURVEY REQUIREMENTS

This handout specifies standards and requirements for the preparation of biological surveys, including who can prepare biological surveys, how surveys should be conducted, what information should be contained in the survey report, and survey format.

WHO MAY PREPARE A BIOLOGICAL SURVEY?

The City of Riverside only accepts biological surveys from biologists listed on the County of Riverside's list of qualified biological consultants. This list is updated three times a year and can be found at:

Riverside County Planning Department
4080 Lemon Street, Ninth Floor
Riverside, CA 92501

Or on the internet at: www.tlma.co.riverside.ca.us/planning/documents/envconsults.pdf).

BIOLOGICAL SURVEY REQUIREMENTS

SCOPE OF WORK FOR BIOLOGICAL SURVEY

The consultant will investigate the biological resources of the site by performing the following tasks:

- Requesting data from the California Natural Diversity Data Base, a unit of the California Department of Fish and Game. The information obtained will identify the known locations of rare, threatened, and endangered species and significant natural communities in the region and assist in identifying the potential on-site presence of such species.
- Requesting data on Federal Species of Concern, California Species of Special Concern and California Species Animals or Plants on lists 1-4 of the California Native Plant Society (CNPS) Inventory.
- Contacting the local field office of the California Department of Fish and Game and the U.S. Fish and Wildlife Service to identify agency concerns regarding the site (i.e.: sensitive biological elements which potentially occur on the site).

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- Conducting a literature search of environmental documents from adjacent and nearby areas. The literature search will include a review of pertinent maps which identify occurrences of sensitive biological elements, scientific literature and regional biological field guides.
- Undertaking field surveys after the literature review and records checks. Field surveys shall be conducted using methodologies accepted by the scientific community. Fieldwork will be conducted at a time when the habitat can be adequately surveyed for evidence of the presence of, or the potential to support, sensitive biological resources.
- Completing any necessary focused surveys for any endangered species, which may potentially occur on the subject property, based on the results of the previous literature and records searches and field surveys.

SURVEY CONTENT AND FORMAT

The survey report shall contain the following information in the format outlined below:

INFORMATION SUMMARY

This summary must contain the following information for reference purposes:

- Date report prepared
- Project site location (include U.S.G.S. - Township, Range, and Section)
- Assessor's Parcel Number(s) and any related planning application numbers (i.e. Tract Map #)
- Owner/Applicant:
Address:
Phone:
- Principal Investigators:
Address:
Phone:
- Report Summary: State the results of the report, noting rare, endangered, or unique species present and conclusions regarding the significance of project impacts pursuant to the California Environmental Quality Act.
- Name of person preparing report

PROJECT AND PROPERTY DESCRIPTION

- Describe the proposed grading, project and property. The description should include the size, topographic characteristics, water resources, soil types, and land uses on the

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property and in the vicinity, up to a radius of one-quarter mile. It is expected that the level of detail and the extent of the study will be proportional to the scale of the proposed project, the diversity of the site, total species distributions and the significance of the habitats impacted by the project.

- Include a map of the project site and surrounding area from the USGS 7.5 minute quadrangle series with the project site clearly outlined.
- Include a grading plan, map or site plan of the proposed project.

METHODOLOGY

- Briefly describe the survey methods used in preparing the report and show on an appropriately scaled map the location of sample points, transects, and any additional areas surveyed in the vicinity of the project.
- Documentation of the date, time, season, and weather conditions at the time of survey, site accessibility and both on- and off-site activities including a discussion of how these or other conditions may have affected the field survey results and field methods used in surveying the site.
- For surveys performed at times of year when rare, threatened or endangered plant species would not be readily identifiable, discuss the need for seasonal surveys or justification for not performing such surveys.

RESULTS

- A discussion of existing plant communities and wildlife habitat found on site.
- Documentation and mapping of the plant and animal resources on the site. Discuss any species that is identified as a category or candidate species as well as any rare, threatened, or endangered species or significant natural communities and species of concern. If habitat on the site was disturbed, determine when and by whom, if possible, by questioning the owner/project proponent.
- A complete list of all plant and animal species that were observed or detected during field surveys. A separate list of species expected to be present seasonally during the year shall also be included. Only site-specific lists are acceptable; however, listing of particular expected species, especially raptors, or listed species, may be appropriate, but their absence should be explained (migratory, estivating, nocturnal species, etc.)
- Species of concern for the survey shall be any unique, rare, endangered, or threatened species. It shall include species associated with wetlands and riparian communities. It shall also include any hosts, perching, or food plants used by any animals listed as rare, endangered, threatened or candidate species by either State, or Federal regulations or for Riverside County as listed by the California Department of

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Fish and Game Natural Diversity Data Base (NDDB) and Federal Species of Concern, California Species of Special Concern and California Species Animals or Plants on lists 1-4 of the California Native Plant Society (CNPS) Inventory. Discuss the importance of rare plant or animal populations listed on the California Department of Fish and Game Natural Diversity Database for Riverside County (www.dfg.ca.gov/whdab/cnddb.htm) with consideration of nearby populations and species distributions. For each such species, indicate the number of individuals observed on site during this survey and immediately off-site. Include an estimate of the total population present both on and off-site. Identify their exact location(s) on the vegetation map. Discuss the site suitability for each such species. If the species are not found on site, discuss the reasons for their absence, particularly if the survey was done when the organism would not be evident or identifiable. Based on the most recent data available, discuss the known growth, food and range requirements of the species, including required soil types, exposure, elevation, availability of water, season, etc.

- Include a copy of a California Native Plant Society Plant Field Survey Form (Special Publication No. 1, 4th ed. Smith, 1988) and/or a Natural Community Field Survey form when unusual communities are found.
- Maps of biological survey data, including the location of all sample points, transects and additional areas surveyed in the vicinity of the project site.
- A discussion of any additional focused surveys which may be required to address sensitive species, including species which could not be detected due to their seasonal occurrence or for which an absolute determination of presence on-site is beyond the scope of the biological assessment.

IMPACT ANALYSIS

All impact analysis shall include a conclusion as to the significance of the project impacts pursuant to the California Environmental Quality Act. Potential conclusion categories are: no impact/less than significant impact/potentially significant impact unless mitigated/potentially significant impact.

- List all reasonably foreseeable direct and indirect impacts of the proposed project, including potential off-site impacts and cumulative impacts. This discussion shall include consideration of any development plans for the project area that have been proposed or adopted.
- Include an analysis of the potential cumulative biological impacts associated with the project. For example, for impacts to raptor foraging habitat, include an analysis of the impact at buildout, of approved and proposed developments, on the suitable habitat of the project site.
- Identify and discuss all potential impacts to threatened, rare, endangered, unique species or species of concern either listed or proposed by a Federal or State agency,

BIOLOGICAL SURVEY REQUIREMENTS

or the California Native Plant Society, both on-site and within an area of one quarter mile radius from the project location.

- Identify and discuss all potential impacts related to wildlife movement corridors.
- Identify and discuss all potential impacts to wetlands or jurisdictional waters under the jurisdiction of the Department of Fish and Game pursuant to Section 1600 et. seq. of the Fish and Game Code or U.S. Army Corps of Engineers pursuant to Section 404 of the Clean Water Act.
- Discuss regional or City plans that concern biological resources, such as the County Multispecies Habitat Conservation Plan or City Grading Ordinance that may affect lands adjacent to or including the project site.
- MSHCP compliance: see handout for MSHCP.

MITIGATION RECOMMENDATIONS

For any impacts identified to be potentially significant the survey shall include:

- Recommendations to substantially mitigate the impacts of the project proposal, based on CEQA guidelines. The types of mitigation for environmental impacts as listed in CEQA (Section 15370) are listed below in the sequence in which they should be considered.
 - Avoiding the impact altogether by not taking a certain action.
 - Minimizing impacts by limiting the degree or magnitude of the action.
 - Rectifying the impact by repairing, rehabilitating or restoring the impacted environment.
 - Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the project.
 - Compensating for the impact by replacing or providing substitute resources or environments.
- If applicable, the exact location of sensitive species, buffer areas and the boundaries of proposed mitigation measures will be mapped at a scale large enough to allow implementation. A monitoring program for the implementation of proposed mitigation measures will be included.
- A conclusion as to the significance of identified impacts following implementation of mitigation measures.

REFERENCES

The report shall include:

- Bibliography.

BIOLOGICAL SURVEY REQUIREMENTS

- List of references cited.
- Persons contacted.
- Herbaria and collections visited.
- Current photos of the site, taken at the time of report preparation, clearly indicating the extant condition of the land and land uses with the location of the site clearly indicated.

CERTIFICATION

The report must include the certification statement shown below:

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological survey, and that the facts, statements and information presented herein are true and correct to the best of my knowledge and belief.

SIGNED: _____ DATED: _____

SUBMITTAL REQUIREMENTS

Provide the City with two copies of the report unless a blueline stream as denoted on the United States Geological Survey (USGS) maps is located on the property, then provide seventeen copies, two for the City and fifteen to be sent to the State.

TIMING

A biological survey is generally considered acceptable up to one year from its preparation date.

3900 Main Street – Third Floor, Riverside, CA 92522
Phone: (951) 826-5371 / Fax: (951) 826-5981
www.riversideca.gov/planning



COUNTY OF RIVERSIDE

TRANSPORTATION AND LAND MANAGEMENT AGENCY

Environmental Programs Department

List of Qualified Biological Consultants

Carolyn Syms Luna
Director

The Riverside County Environmental Programs Department (EPD) requires that, prior to submitting a biological report (PDB) to the County, the consultant who prepares the report must be on the List of Qualified Biological Consultants. To appear on this list, a consultant shall have executed a Memorandum of Understanding (MOU) with the County which establishes the procedures and guidelines by which biological information will be prepared and submitted. The MOU requires the consultant to provide all reports to the County either prior to, or simultaneously with the project proponent's initial receipt of the information contained in the reports.

Access to and use of the List of Qualified Biological Consulting Firms is provided "As Available." The List of Qualified Biological Consulting Firms is for your personal use only and EPD make no representation or warranty of any kind, express or implied. For questions/comments regarding this list or to qualify as a consultant on the list, contact the Environmental Programs Department at (951) 955-6892 or email MTHILL@rctlma.org.

The List of Qualified Biological Consulting Firms is NOT an endorsement of any company's capabilities by EPD, nor is the list intended to act as an advertising tool for those listed. The list is provided as a complementary resource to those interested in securing the services of a biological consultant. List users are advised to conduct the appropriate reference checks before engaging any company or individual. It is solely the list user's responsibility to ensure that the consultant(s) they hire are in compliance with the law and are familiar with the current biological reporting procedures established for Riverside County.

Biological Reports

Each biological report must contain a Habitat Vegetation Map and Color Habitat Photos as identified in the Environmental Reports Packet. Other attachments may also be required. Please refer to the Environmental Reports Packet found at:

http://www.tlma.co.riverside.ca.us/epd/documents/Environmental_Report_Packet.pdf

EPD maintains a list of BIOLOGICAL consultants only. For information on the Cultural Resource Consultant List or County Oak Tree Ordinance please contact the Riverside County Planning Department.

Environmental Impact Reports (EIR)

The Riverside County Planning Department maintains a list of consultants that may prepare EIRs or other reports pursuant to the California Environmental Quality Act (CEQA). The Planning Department's web site may be accessed at the following address:

<http://www.tlma.co.riverside.ca.us/planning/index.html>

Please note: Consultants who prepare biological information for EIRs or any other CEQA document must be on the current List of Qualified Biological Consultants.

LAST REVISED – October 29, 2007

List of Qualified Biological Consultants

<u>FIRM NAME</u>	<u>ADDRESS</u>	<u>PHONE /FAX: /EMAIL/WEB SITE</u>	<u>PRINCIPAL/CONTACT</u>	<u>FOCUS</u>
ACCESS Environmental	31435 Corte Sonora Temecula, CA 92592	(909) 694-4139 Fax: (909) 694-8035 sam@teracor.net	Sam Reed Ian Swift	Biological, CEQA, Wetlands Delineations Species: DT, AT, OAK
Advantage Environmental Consultants, LLC	145 Vallecitos De Oro Ste.201 San Marcos, CA 92069	(760) 744-3363 Fax: (760) 744-3383 cpowers@aec-env.com	Chris Powers	Biological Assessments, Construction Monitoring, Wetland/Jurisdictional Delineations, Regulatory Permitting, GIS Mapping. Species: BUOW, FS, CAGN, DT, LBVI, QCB
Albert A. Webb Associates	3788 McCray Street Riverside, CA 92506	(951) 686-1070 Fax: (786-0594 www.webbassociates.com	Stephanie Standerfer	Focus: CEQA, NEPA, Air, Noise & Traffic Studies, Wetland/Jurisdictional Delineations, Regulatory Permitting (ACOE, CDFG, RWQCB), MSHCP Consistency Analysis, Specific Plans
Allen, Shannon M.	3552 Mount Everest Boulevard San Diego, CA 92111	(858) 569-1650 Fax: (858) 569-1650 smallen@san.rr.com	Shannon M. Allen	Biological, Wetlands and Permitting, Herpetology, Ornithology, Habitat Restoration Species: Sensitive

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<u>FIRM NAME</u>	<u>ADDRESS</u>	<u>PHONE /FAX: /EMAIL/WEB SITE</u>	<u>PRINCIPAL/CONTACT</u>	<u>FOCUS</u>
AMEC Earth and Environmental, Inc.	3120 Chicago Ave., Ste #110 Riverside, CA 92507	(951) 369-8060 Fax: (951) 369-8035 Wes.speake@amec.com	Wes J. Speake	Biological, Botanical, CEQA/NEPA, Construction Monitoring, EIR/EIS, Habitat Restoration, HANS applications & meetings, MSHCP Compliance, Permitting, Wetland Delineations. Species: AKR, AT, BUOW, CAGN, CRLF, DSFLF, DT, FTHL, FRTL, LAPM, LBVI, MOGS, MYLF, NEPS, OAK, QCB, RAPS, RRVP, SWFL, SBKR, SKR, and YBCU.
	5510 Morehouse Dr. San Diego, CA 92121	(858) 458-9044 Fax: (858) 458-0943		
Arbor Life Consulting	30882 Cocos Palm Avenue Homeland, CA 92548	Office/Fax: (951) 926-6442 Cell: (951) 378-5512 ronmorrow@aol.com	Ron Morrow	Biological, Urban Ecology, Species: Trees, Native
Arnold, Brian W.	9393 Grossmont Blvd. La Mesa, CA 91941	Cell: (619) 301-7586 brianarnold@cox.net	Brian W. Arnold	Biological, Wildlife, Botanical, Wetlands, Permitting, MSHCP Compliance, HANS, CEQA/NEPA, EIR/EIS Species: AT, BUOWL, DT, FTHL, LBVI
ASM Affiliates, Inc.	543 Encinitas Blvd. Suite #114 Encinitas, CA 92024	(760) 632-1094 Fax: (714) 632-0913 jschaefer@asmaffiliates.com	Dr. Jerry Schaefer Catherine A. Wright	Environmental Documentation
	Pasadena	(626) 793-7395	Sherri Andrews	

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Assessco, Inc.	249 Bernard Ave. Venice, CA 90291	(310) 392-6179 Fax (310) 392-6180 info@assessco.com	Dan Tims	Biological, Environmental
Associated Biological and MSHCP Consulting	P.O. Box 4666 Riverside, CA 92514	(951) 788-0058 Cell: (760) 220-1335 Fax: (760) 249-4201 associatedbio@yahoo.com	Charles German	Habitat Assessments, Focused Surveys, and MSHCP/HANS Assistance
Beaman Biological Consulting	11429 S. San Juan Dr. Loma Linda, CA 92354	(909) 796-1861 heloderma@adelphia.net	Kent R. Beaman	Biological Species: AT, DT, FTHL
Biological Resource Specialists	35813 Carter St. Yucaipa, CA 92399	(909) 797-5740 Fax: (909) 797-8301 johnwearbrs@uia.net	John F. Wear	Biological
Bloom, Peter H.	13611 Hewes Avenue Santa Ana, CA 92705	(714) 544-6147 Fax: (714) 832-4414 Phbloom1@aol.com	Peter H. Bloom	Biological
BonTerra Consulting	151 Kalmus Dr Ste E200 Costa Mesa, CA 92626	(714) 444-9199 Fax: (714) 444-9599 Ajohnston@bonterraconsulting.com sleatherman@bonterraconsulting.com	Sandra J. Leatherman Ann Johnston	Biological, Environmental Impact Assessment, EIRs/EA's, CEQA/NEPA, Habitat Restoration/Wetland Delineations Species: Endangered
Bramlet, David E.	1691 Mesa Dr, A-2 Santa Ana, CA 92707	(714) 549-0647 debramlet@earthlink.net	David E. Bramlet	Biological
BRG Consulting Inc.	304 Ivy St San Diego, CA 92101- 2030	(619) 298-7127 (619) 298-0146 brginc@brginc.net	Patricia Butler	CEQA/NEPA Documentation Regulatory Permitting

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Brian F. Smith & Associates	14010 Poway Rd. Ste A Poway, CA 92064	(951) 681-9950 Fax: (858) 679-9896 info@bfsa-ca.com	Brian F. Smith	Biological, CEQA/NEPA, Botanical, Focused Surveys, NEPA, GIS, MSHCP Consultation Species: BUOW, RAPS
Bruyea Biological Consulting	43430 E. Florida Avenue Ste F , PMB 1113 Hemet, CA 92544	(951) 927-1464 Fax: (951) 927-1464 Cell: (909) 226-9268 Guy.bruyea@verizon.net	Guy P. Bruyea	Biological, Botanical, Entomology, Habitat Assessments, Focused Surveys Species: BUOW, CAGN, QCB, DSFLF , and Casey's June Beetle
Cadre Environmental	701 Palomar Airport Rd Ste 300 Carlsbad, CA 92011	(949) 300-0212 Fax: (760) 758-3844 r.ramirez@cadreenvironmental.com	Ruben S. Ramirez	Biological, GIS, Species: AT, CAGN, LAMP, SBKR, CRLF
Callahan, Joan R., Ph.D.	PO Box 3140 Hemet, CA 92546	(951) 658-4625 Cell: (909) 234-0749 callahanjr@netzero.com	Joan R. Callahan, Ph.D.	Biological
CH2M Hill	3 Hutton Centre Dr Ste 200 Santa Ana, CA 92707	(714) 429-2000 Fax: (714) 429-2050 tpeters@ch2m.com	Carolyn Washburn	Biological
Chambers Group, Inc.	17671 Cowan Ave Ste 100 Irvine, CA 92614	(949) 261-5414 Fax: (949) 261-8950 cmayercheck@chambersgroupinc.com	Coleen Mayercheck	Biological, Permitting, CEQA Compliance, EIR/EIS, Restoration, Wetland Delineation, Air & Water Quality
	302 Brookside Ave Ste D Redlands, CA 92373	(909) 335-7068 Fax: (909) 335-6318 cmayercheck@chambersgroupinc.com		

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Christopher A. Joseph & Associates	11849 W. Olympic Boulevard Ste. 101 Los Angeles, CA 90064	(310) 473-1600 info@cajaeir.com	Shannon Lucas	Tree Surveys, Jurisdictional Wetlands/Water Delineations, Rare plant surveys, plant community mapping, Habitat Assessments, Impact & Mitigation Evaluation, Regulatory Permitting, CEQA analysis Species: special status
Consultants Collaborative	160 Industrial Dr Ste 200 San Marcos, CA 92078	(760) 471-2365 Fax: (760) 471-2383 mike@cciconnect.com	Mike Jefferson	Biological
Couffer, Michael C.	716 Marguerite Ave Corona Del Mar, CA 92625	(949) 644-7127 Fax: (949) 644-7127 mikecouffer@adelphia.net	Mike C. Couffer	Biological
Crawford, Dave	1936 North Croydon Ave Camarillo, CA 93010	(805) 987-9184 Fax: (805) 987-6594 dcrawford@compliancebiology.com	Dave Crawford	Biological
Davenport Biological Services	P.O. Box 1692 Barstow, CA 92312	(619) 729-4242	Arthur E. Davenport	Biological
David Evans & Associates, Inc.	2100 S.W. River Parkway Portland, OR 97201	(503) 223-6663	Karen Ruggels	EIR, Air & Water Quality, Landscape Ecology
	800 N. Haven Ave Ste 300 Ontario, CA 91764	(909) 481-5750 Fax (909) 481-5757 klr@deainc.com		

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Debra Kinsinger Environmental Consulting	2846 Unicornio St. Carlsbad, CA 92009	Phone/Fax:(877) 593-6275 happydeb@gmail.com	Debbie Kinsinger	Biological Assessments, CEQA/NEPA, EIS/EIR, T&E Focused Surveys (HANS, ERP, CAS, NEP, RAP), Protocol Wetland Delineation & Soil Surveys (RRVP), Determination of Biologically Equivalent or Superior Preservation (DBESP) Report, GIS Mapping, Restoration, Permitted species not limited to: BUOW , CAGN, Casey's June Beetle, DT, DSFLF, LBVI, MOGS, SKR, SBKR, SWWF, OAK, QCB
Drake, Brian	P.O. Box 108 Nuevo, CA 92567	(951) 928-1317 (909) 225-2146 bdrake2@earthlink.net	Brian Drake	Biological Habitat Assessments, Biological Construction Monitoring, Herpetology, CDFG, USFWS Species: BUOW, CAGN, DSFLF, QCB, T&E
Dudek & Associates, Inc.	605 Third Avenue Encinitas, CA 92024	(760) 942-5147 Fax: (760) 632-0164 jcollins@dudek.com	June S. Collins	Biological
Earth Tech, Inc.	1461 E. Cooley Dr., Ste #100 Colton, CA 92324	(909) 554-5041 Fax: (909) 424-1924 Matthew.malle@earthtech.com	Matthew Malle	Biological Surveys, Monitoring & CEQA/NEPA
Ecological Ventures California, Inc.	15857 S. Silver Springs Rd Kingman, AZ 86401	Office (928) 692-6511 Cell (619) 933-7919 Cell (619) 933-7918 Fax (928) 692-9016 ecologicalventures@earthlink.net	Bob Faught Julie Alpert	Biological, DT QCB, SKR, Bat Surveys, Wetland Delineations, Mitigation Land Assessments

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Ecological Sciences, Inc.	601 Glade Drive Santa Paula, CA 93060	(805) 921-0583 Fax (805)921-0683 scameron@ecosciencesinc.com	Scott Cameron	Biology, ACOE, CDFG, CEQA, CWA, RRPV Species: AT, BUOW, CAGN, CAS, DSFLF, FTHL, NEPS, RAPS
ECORP Consulting	412 E. State St Redlands, CA 92373	(909) 307-0046 dmitchell@ecorpconsulting.com	Don Mitchell	Biology, CEQA/NEPA.
EDAW Inc.	3780 Wilshire Blvd Ste 250 Los Angeles, CA 90010	(213) 368-1608 Fax: (213) 368-1614 larkint@edaw.com wilsone@edaw.com	Thomas Larkin	Biological
ENVIRA	23849 Gymkhana Rd. Ramona, CA 92065	(760) 788-0450	Philippe Vergne	Biological
Environ Associates	231 La Veta Avenue Encinitas, CA 92024	(760) 436-0831 Fax: (760) 436-7158 donsutt@aol.com	Donald D. Sutton, Ph.D.	Biological
Environmental & Regulatory Specialists, Inc. (EARSI)	223 62 nd St Newport Beach, CA 92663	(949) 646-8958 Fax: (949) 646-5496 dave@earsi.com	David Tanner	Biological, Restoration Ecology
EnviroPlus Consulting	1660 West Franklin Ave Ridgecrest, Ca 93555	(760) 371-3592 Fax: (760) 371-3592 torthunter@aol.com	Gilbert Goodlett	Biological, DT, QCB, DSFLF

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Foothill Associates	10509 Vista Sorrento Pkwy Ste120 San Diego, CA 92121 24961 The Old Road Ste 102 Stevenson Ranch, CA 91381	(858) 552-8885 Fax: (858) 552-8886 mhoward@foothill.com (661) 284-3018 Fax: (661) 284-2829 rmontijo@foothill.com	Mike Howard Richard Montijo	Biological, Endangered Species Survey & Monitoring, CEQA/NEPA, Permitting, MSHCP Compliance, Construction Monitoring Restoration: Riparian, Desert, Wetland Species: BUOW, DT, LBVI, QCB, SWWF, VP
Glen Lukos Associates, Regulatory Services	29 Orchard Lake Forest, CA 92630-8300	(949) 837-0404 Fax: (949) 837-5834 glukos@wetlandpermitting.com	Glen C. Lukos	Biological
Gonzales, Teresa	51-842 Avenida Diaz La Quinta, CA 92253	(760) 777-1621 teresa.gonzales@earthlink.net	Teresa Gonzales	Biological, Wetlands Delineations, Habitat Surveys, CEQA/NEPA
Hamilton, Robert A.	34 Rivo Alto Canal Long Beach, CA 90803	(562) 439-1480 Cell: (562) 477-2181 robb.hamilton@gte.net	Robert A. Hamilton	Biological
Harmsworth Associates	19 Golf Ridge Dr Dove Canyon, CA 92679 29 Vacaville Irvine, CA 92602	(949) 858-1553 Fax: (949) 589-2784 rod949@cox.net (714) 287-4986 Fax: (714) 389-9534 pgavin9@cox.net	Rod Harmsworth	Biological, Botanical

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HDR Engineering, Inc.	8690 Balboa Ave Ste 200 San Diego, CA 92123	(858) 712-8400 Fax: (858) 712-8333 susan.buell@hdrinc.com	Susan Buell	Biological, CEQA, EIR/EIS
Helix Environmental Planning, Inc.	3600 Lime Street, # 721 Riverside, CA 92501	(951) 328-1700 Fax: (951) 328-9978 DaveC@helixepi.com JackE@HelixEPI.com www.HelixEPI.com	Dave Claycomb, AICP Jack Easton	Biological, CEQA/NEPA, EIR/EIS, MSHCP Compliance (CAS, DBESP, HANS, NEPS, RRVP), Wetlands Delineation & Permitting, USFWS/CDFG Permitting, Habitat Restoration. Species: AT, BUOW, CAGN, DT, FS, FTHL, LBVI, NEPS, OAK, QCB, RAPS, SWWF, T&E, YBCU
Impact Sciences, Inc.	7101 Magnolia Avenue Ste A Riverside, CA 92504 803 Camarillo Springs Rd Ste A Camarillo, CA 93012 234 E. Colorado Blvd. Ste 205 Pasadena, CA 91101	(951) 787-7808 Fax: (951) 684-0466 Cell: (805) 377-8207 dkoutnik@impactsciences.com (626) 564-1500 (805) 437-1900	Daryl Koutnik Tom Worthington	Biological, CEQA/NEPA, Air Quality

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James Cornett Ecological Consultants	PO Box 846 Palm Springs, CA 92263	(760) 320-8135 Fax: (760) 320-6182 jwcornett@aol.com	James Cornett	Biological
Jeff W. Kidd and Nina Jimerson Biological Consulting	18562 Frantz Rd Perris, CA 92570	(949) 636-7769 (909) 776-0304 Buteo6@earthlink.net	Jeff W. Kidd & Nina Jimerson	Biological
Jones & Stokes	Southern California Branch 17310 Red Hill Ave Ste 320 Irvine, CA 92614	(949) 260-1080 Fax (949) 260-1081 jsa@jsanet.com	David Freytag, ACIP	Wetlands, Biological, Focused Surveys, Oak Tree Inventories, Restoration, Construction Monitoring, Regulatory Compliance, CEQA/NEPA
	27403 Ynez Rd Ste 208 Temecula, CA 92591-4617	(951) 506-4038 Fax (909) 506-4138	Kurt F. Campbell	
	2600 V. St Sacramento, CA 95814	(916) 737-3000 Fax (916) 737-3030	Jim Estep	
KDJ & Associates	5546 Camino Al Norte North Las Vegas, NV 89031	(702) 399-6196 Cell (702) 378-5704 Fax (702) 399-9895 KDJBIO@aol.com	Karen D. Jones	Biological, CEQA/NEPA, FESA, CWA 401& 402, 1603 Permitting, Restoration

List of Qualified Biological Consultants

<u>FIRM NAME</u>	<u>ADDRESS</u>	<u>PHONE /FAX: /EMAIL/WEB SITE</u>	<u>PRINCIPAL/CONTACT</u>	<u>FOCUS</u>
Kamada, Dana	3413 Calle La Veta San Clemente, CA 92672	(949) 493-4180 Fax: (949) 493-4180 Dkamada@cox.net	Dana Kamada	Biological
Klinefelter, Michael J.	24641 Chalone Dr Murrieta, CA 92562	(909) 223-9947 Fax: (909) 698-8347 mike@4gis.com	Michael J. Klinefelter	Jurisdictional Wetland Delineations, Biological Assessments
Konecny Biological Services	1501 East Grand Ave #2403 Escondido, CA 92027	(760) 489-5276 jkonecny@nethere.com	John K. Konecny	Biological, CEQA, Wetlands Delineations, Habitat Assessments Species: DT, FTHL
L & L Environmental, Inc.	5455 Morgan, Riverside, CA 92509	(951) 681-4929 Fax: (909) 681-6531 lirish@lenviroinc.com	Leslie Irish	Biological, Wetlands, USFWS Permitting Species: LBV, CAGN, QCB, DSFSF
	1269 Pomona Ste 102 Corona, CA, 92882	(909) 279-9608 Fax: (909) 279-9609		

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La Coste Biological Consulting	1565 Lilac Rd. Ramona, CA 92065	(760) 500-8802 Fax: (760) 787-9168 elacoste.bio@sbcglobal.net	Erik La Coste	Biological
Land Design Consultants, Inc.	199 South Los Robles Ave Ste 250 Pasadena, CA 91101	(626) 578-7000 Fax (626) 578-7373 tgarrison@ldcla.com	Ty M. Garrison	Biological, Wetlands Delineations, Permitting, Tree Surveys, Monitoring, Restoration Plans, CEQA/NEPA Species: BUOW
LaPierre, Louis, Ph.D.	3508 N. Sepulveda Ave. San Bernardino, CA 92404	(909) 553-2525 Fax (909) 881-9145 zygops@earthlink.net		Biological
Leatherman BioConsulting, Inc.	4848 Lakeview Dr. Ste. 100E Yorba Linda, CA 92886	(714) 701-0863 Fax: (714) 701-0869	Brian Leatherman	Biological Inventories, Construction Monitoring, Habitat Assessments, Focused Surveys Species: BUOW, CAGN, LBV, SWWF, QCB, DT, AT, MYLF

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Lee, Howard	13552 Laurinda Way Santa Ana, CA 92705	(714) 469-4938 howardlee@hotmail.com	Howard Lee	Biological
Lettieri-McIntyre & Associates, Inc.	1551 Fourth Ave Ste 430 San Diego, CA 92101	(619) 238-4241 Fax (619) 238-9772	M. Bruce McIntyre	Biological
Lincer & Associates Wildlife Research Institute, Inc. (501(c) 3- non-profit)	9251 Golondrina Dr La Mesa, CA 91941	(619) 668-0032 JeffLincer@tne.net	Jeffrey L. Lincer, Ph.D.	Biological
LSA Associates, Inc.	Irvine Office 1 Park Plaza, Ste 500 Irvine, CA 92714 Riverside Office 1650 Spruce Street, Ste 500 Riverside, CA. 92507	(949) 553-0666 Fax (949) 553-8076 art.homrighausen@lsa-assoc.com (951) 781-9310 Fax (951) 781-4277 lynn.hayes@lsa-assoc.com	Art Homrighausen Lyn Calvert-Hayes, AICP	Biological, Botany, EIS/EIR's, Wetlands Permitting

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MACTEC, Inc.	5341 Old Redwood Highway Ste 300 Petaluma, CA 94952	(707) 793-3866 (707) 793-3800 PLNELSON@mactec.com	Patricia Nelson, REA	Biological
Merkel & Associates, Inc.	5434 Ruffin Road San Diego, CA 92123	(858) 560-5465 Fax: (858) 560-7779 associates@merkelinc.com	Barbara L. Merkel	Biological, CEQA/NEPA, Environmental Permitting, Habitat Restoration, Ecological Management, USFWS 10(a)(1)(A)
Michael Brandman & Associates	Irvine Office 220 Commerce, Ste 200 Irvine, CA 92602	(714) 508-4100 Fax (714) 508-4110 tmcgill@brandman.com	Michael Brandman, Ph.D.	CEQA/NEPA Documentation and Permitting

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	San Bernardino Office 621 E. Carnegie Dr, Ste.100 San Bernardino, CA 92408 Palm Office 400 South Farrell Drive Ste. B-210 Palm Springs, CA 92262	(909) 884-2255 Fax (909) 884-2255 tmcgill@brandman.com (760) 322-8847 Fax (760) 322-8893 nerguson@brandman.com	Thomas J. McGill, Ph.D. Nancy Ferguson	Regulatory Permitting (404/401) Wetlands/Jurisdictional Delineations EIR/EIS/EA/HANS Environmental Site Assessments (Phase 1) Natural and Biological Resources ,Resource Management Plans, MSHCP Compliance, Habitat Assessments, Focused Surveys, Endangered Wildlife & Plant Surveys, Endangered Species Permitting, Species not limited to: BUOW, CAGN, DSFL, DT, LAPM, LBV, MGS, QCB, SBKR
Michael P. Hamilton & Associates	PO Box 1807 Idyllwild, CA 92549	(909) 659-2344 Fax (909) 659-0553 director@jamesreserve.edu	Michael P. Hamilton, PhD	Biological
Mooney & Associates	9903 Businesspark Ave. San Diego, CA 92131-1120	(858) 578-8964 Fax (858) 578-0573 jcoppola@bfma.com	Brian F. Mooney, AICP	Biological, Wetland Delineations, Permits, EIS/EIR's
MSA Consulting, Inc.	34200 Bob Hope Dr. Rancho Mirage, CA 92270	(760) 320-9811 Fax (760) 323-7893 mwitherspoon@msaconsulting.com	Michelle Witherspoon	CEQA/NEPA Documentation, Environmental Site Assessment

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Natural Resource Assessment, Inc.	3415 Valencia Hill Dr Riverside, CA 92507	(909) 686-1141 Fax (909) 686-8418 nrainc@earthlink.net	Karen Kirtland	Biological, Section 10A & Section 404 Permits, Habitat Assessments
Natural Resource Consultants	1590 South Pacific Coast Hwy., Suite 17 Laguna Beach, CA 92651	Phone (949) 497-0931 Fax (949) 497-2971 info@e-nrc.com www.e-nrc.com	David Levine	Biological
Nelson, Gregory S.	24230 Delta Dr. Diamond Bar, CA 91765	(949) 753-7001 Fax (909) 396-8478	Gregory S. Nelson	Biological, Habitat Assessments, Focused Surveys Species: CAGN
O'Farrell, Michael	2812 North Jones Blvd. Las Vegas, NV 89108	(702) 658- 5222 or 1-800-776- 4881 mike@mammalogist.org	Michael O'Farrell	Biological, CEQA, Habitat Assessments
Osborne, Kendall H.	6675 Ave Juan Diaz Riverside, CA 92509	Ph/Fax (909) 360-6461 Euproserpinus@msn.com	Kendall H. Osborne	Biological, Entomology, Habitat Assessments
Pacific Southwest Biological Services, Inc.	PO Box 985 National City, CA 91951-0985	(619) 477-5333 Fax: (619) 477-5380 bio@psbs.com mike@psbs.com ruth@psbs.com	R. Mitchel Beauchamp	Biological, Botany, Habitat Assessments, Oak Tree Assessments, Wetlands/Jurisdictional Delineation & Permitting, CEQA/NEPA, MSHCP Compliance, Trapping Species not limited to: ARTO, BUOW, CAGN, CRLF, DSFLF, DT, FTHL, LAPM, LBV, MGS, QCB, SKR, SBKR, SRB, SWFL

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Palm Springs Biological Services	Palm Springs, CA 92253	(760) 485-0888 lateralis@aol.com	Brett Daniels	Biological Evaluation CEQA/NEPA, Herpetology, Habitat Assessments, Wetlands delineations, Species: DT, Gila Monster, T&E Species, BUOW, MGS
PCR Services Corporation	One Venture, Ste 150 Irvine, CA 92618	(949) 753-7001 Fax (949) 753-7002 s.nelson@pcrnet.com s.ruiz@pcrnet.com	Steve G. Nelson	Biological, CEQA/NEPA, EIR
P & D Environmental	999 Town & Country 4th Floor Orange, CA 92828	(714) 835-4447 Fax (714) 953-6989 m_Brenner@pdconsultants.com	Michael A. Benner	Biological, Focused Surveys, Habitat Assessments, Restoration, EIR/EIS, CEQA/NEPA
Phoenix Ecological Consulting	P.O. Box 720949 Pinon Hills, CA 92372-0949	Office (661) 261-3390 Cell (949) 887-0859 Fax (661) 261-3391 ryanyoung@yahoo.com	Ryan Young	Biological Assessments, Construction Monitoring, Presence/Absence Surveys, GIS Applications, Wetland Delineations, Trapping Species: AT, BUOW, DT, FTHL, LBVI, MOGS, MYLF, QCB, SWFL
Powell Environmental Consultants	146 West Broadbent Dr Riverside, CA 92507	(951) 686-1497 (951) 440-4235 dajrpowell@msn.com	Dale Powell, PH.D.	Biological, Entomology, Habitat Assessments, Focused Surveys, Construction & Monitoring Species: BUOW, DSFLF Caseys June Beetle, Fairy Shrimp
Principe & Associates	40335 Winchester Road Suite 110 Temecula, CA 92591	(951) 699-3040 Fax: (951) 699-3050 fossilman@earthlink.net	Paul Principe	Biological

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Psomas & Associates	3187 Red Hill Ave Ste 250 Costa Mesa, CA 92626	(714) 751-7373 Fax: (714) 545-8883 jthornton@psomas.com	John Thornton	Biological, USFWS Permitting, Wetland Delineation, Surveys for Endangered Wildlife and Plant Surveys
Rachel Tierney Consulting	PO Box 1113 Santa Barbara, CA 93102	(805) 957-1100 Fax: (805) 957-2050 rtierney@cox.net	Rachel Tierney	Biological
Rado, Ted	3144 Celeste Drive Riverside, CA 92507	Office (951) 369-8510 Cell (951) 323-7338	Ted Rado	Biological, General Biological Surveys, Forest Service Surveys Species: AT, BUOW, DT, CRLF
Raney Planning & Management , Inc.	2280 Market St., Ste. 220 Riverside, CA 92501	Office (951) 328-0300 Fax (951) 328-0401 jcimino@raneymanagement.com	Tim Raney Jamie Cimino	CEQA, Preparations of EIR's , Initial Studies
RCA Associates, Inc.	15555 Main St PMB # D4, 234 Hesperia, CA 92345	(760) 261-1575 Fax: (760) 244-0791 RCA12@gte.net	Randall C. Arnold	Biological
RECON Environmental, Inc.	1927 Fifth Ave Ste 200 San Diego, CA 92101-2358	(877) 399-1927 toll free (619) 308-9333 Fax: (619) 308-9334 sfayette@recon-us.com	Robert MacAller	Biological, USFWS Permitting, Wetlands Delineations/Permits, Habitat Restoration, CEQA/NEPA, Noise, Air Species: Endangered
Revegetation & Wildlife Management Center, Inc.	203 So. Palm Dr. Blythe, CA 92225	(760) 922-2541 Fax: (928) 569-3780 office@revegandwildlife.com	Dr. Bertin W. Anderson	Biological

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Rick Riefner & Associates	5 Timbre Rancho Santa Margarita, CA 92688	(949) 322-0022 rriefner@earthlink.net	Rick Riefner	Biological, Restoration Ecology, Wetland Delineation, Habitat Assessments & Focused Surveys Species: BOUW, CAGN, NEPS, RAPS
Rincon Consultants, Inc.	790 East Santa Clara St Ventura, CA 93001	(805) 641-1000 Fax: (805) 641-1072 infor@rinconconsultants.com	Michael P. Gialketsis	Biological, CEQA/NEPA, Environmental Site Assessment and Remediation
Rocks Biological Consulting	3242 Falcon St. San Diego, CA. 92103	(619) 843-6640 jim@rocksbio.com	Jim Rocks	Biological, Vegetation Mapping, Habitat Assessment, Impact Analysis, Construction Monitoring, Restoration/Revegetation, Wetland Delineation Species: Fairy Shrimp, QCB, CAGN
RBRiggan & Associates	10646 Marbury Ave San Diego, CA 92126-2838	(858) 586-0441 (619) 233-5454 Fax: (858) 586-0455 rbriggan@sbcglobal.net	Royce B. Riggan Gretchen Cummings	Biological, Focused Surveys, EIR's, HANS, RRPV Species: BUOW, CAGN, QCB, RAPS
Sage Environmental Group	41 Rollins Place Laguna Niguel, CA 92677	(949) 243-2282 Fax: (949) 496-9345 afcope@cox.net	Alissa Cope	Wetlands Permitting, ESA Compliance, Biological Services, Habitat Restoration
SAIC	35 S. Raymond Ave. Ste 204 Pasadena, CA 91105-1931	(626) 440-8351	Marc Blain	Biological, CEQA/NEPA, Wetlands Species: T&E Species
San Bernardino County Museum	2024 Orange Tree Ln Redlands, CA 92374	(909) 307-2669 Fax (909) 307-0539	Kathleen Springer	Biological

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Sapphos Environmental, Inc.	133 Martin Alley Pasadena, CA 91105	(626) 683-3547 (626) 683-3548	Marie C. Campbell	Biological, Habitat Restoration, Permitting, Planning
	1351 4 th St Ste 227 Santa Monica, CA 90401	(310) 260-1520 (310) 260-1521 sapphos@pacbell.net	Irene Mendez	
Scheidt, Vincent N.	3158 Occidental St San Diego, CA 92122	(858) 457-3873 Fax: (858) 457-1650 vince@san.rr.com	Vincent N. Scheidt	Biological, Habitat Assessments, Wetlands Delineations, Herpetology Species: Endangered
Scott White Biological Consulting	201 North First Ave., #102 Upland, CA 91786	(909) 949-3686 Fax: (909) 983-7746	Scott White	Biological
SJM Biological Consultants	7071 Chapala Canyon Court San Diego, CA 92129	(858) 484-9100 sjmbioconsult@san.rr.com	Stephen J. Montgomery	Biological
South Coast Environmental & Revegetation Services, Inc.	P.O. Box 1195 National City, CA 91951	Office (619) 434-5155 Cell (619) 829-7733 Fax (619) 434-8989 ruthlprado@cox.net	Ruth L. Prado	Biological, CEQA/NEPA, MSHCP compliance, Jurisdictional/Wetlands Delineation & Permitting (ACOE, CDFG, RWQCB), Oak & Heritage tree studies, Construction Monitoring, Species: T&E , AKR, AT, BUOW, CAGN, CRLF, DSFLF, DT, FTHL, FRTL, LAPM, LBVI, MOGS, PPM, RRPV, SWFL, SBKR, SKR, SWWF, YBCB, CAS, NEPS, RAPS
Sprague, Stephan Henry	30251 Golden Lantern Ste E390 Laguna Niguel, CA 92677-5993	(949) 903-0793 Fax: (949) 425-0058 steve@spragueconsultants.com	Stephan H. Sprague	Biological, Habitat Assessment, Mitigation Monitoring, Restoration

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Sunrise Consulting	1412 S. Center St. Redlands, CA 92373	(909) 798-0330 kbsimon@verizon.net	Kathy Simon	Biological, DT, EIR/EIS, ESA, MOGS
Sutton, Donald D.	231 La Veta Ave Encinitas, CA 92024	(760) 436-0831 Fax: (760) 436-7158 dondsutt@aol.com	Donald D. Sutton, Ph.D.	Biological
SWCA Environmental Consultants	625 Fair Oaks Avenue Suite 190 South Pasadena, CA 91030	(626) 240-0587 Fax: (626) 240-0607 tryan@swca.com mtuma@swca.com www.swca.com	Thomas Ryan or Michael Tuma	Biological, Botanical, CEQA/NEPA, Pre-Construction Surveys, Construction Monitoring, EIR/EIS, MBTA, Habitat Restoration, ESA, HANS, HCP, MSHCP Species: AT, BUOW, CAGN, CRLF, DT, FRTL, LBVI, NEPS, OAK, RAPS, SWWF, T&E
	23392 Madero Suite L Mission Viejo, CA 92691	(949) 770-8042 Fax: (949) 770-9058 tryan@swca.com mtuma@swca.com www.swca.com		
T&B Planning Consultants, Inc.	17542 E. 17 th St Ste 100 Tustin, CA 92780	(714) 505-6360 Fax: (714) 505-6361 jmorse@tbplanning.com	Joel Morse	CEQA and EIR Lead Consultant Services, including Sub-consultant Management and Document Preparation
TeraCor Resource Management	28999 Old Town Front St. Ste 202 Temecula, CA 92590	(909) 694-8000 Fax: (909) 694-8035 sam@teracor.net	Samuel J. Reed	Biological, Wetlands

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Tetra Tech, Inc.	348 W. Hospitality Lane, Suite 100, San Bernardino, CA 92408-3216	(909) 381-1674 Fax: (909) 889-1391 fred.budinger@tetrtech.com	Thomas J. Villeneuve	Biological
The Planning Associates	3151 Airway Ave., Ste.R-1 Costa Mesa, CA 92626	(714) 556-5200 Fax: (714) 556-3905 planningassoc@aol.com	Hardy Strozier, AICP John Petke	CEQA, Biological, MSHCP Compliance, EIR, Habitat Restoration, Environmental Documentation
Thomas Leslie Corporation	42210 Roick Drive, Ste. 11 Temecula, CA 92590	(951) 719-1128 Cell (909) 938-1776 Fax (951) 719-3106 tom@tlescorp.com	Thomas A. Leslie	MSHCP Biological Habitat Assessments, Botanical NEPS/CAS surveys, Focused BUOWL surveys/habitat assessments, Vegetation mapping, EIR level biological reports with CEQA impact analysis & Bio Construction Monitoring, Oak & Heritage tree studies, Permitted for Forest Surveys, MSHCP Compliance= DBESP, UWIG & RRVP investigations & reports, HANS Species: RAPS, RRVP, T&E species, Live small mammal trapping (LAPM, SKR, SBKR, MOGS, etc.) BUOW, CAGN, NEPS, CAS, OAK, DSFLF, DT, LBVI, SWFL, YBCU, FTHL, FRTL, CRLF, MYLF, QCB

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Thomas Olsen Associates, Inc.	2829 South State St. Hemet, CA 92543	(951) 766-4655 Fax: (951) 766-4658 tgotoa@aol.com	Thomas G. Olsen	Biological, CEQA (IS/EIR), NEPA (EA/EIS) Wetlands Delineation, Resource Assessments, ESA/CWA Permitting Species: LBVI
Thomas, Charles Jr.	3341 Ellington Villa Altadena, CA 91001	(626) 794-7697 chastomasjr@cs.com	Charles Thomas, Jr.	Biological, CEQA, EIR/EIS
Tierra Environmental Services	9903-E Businesspark Ave. San Diego, CA 92131-1120		Michael G. Baksh, Ph.D.	Biological
Tierra Madre Consultants, Inc.	PO Box 985 National City, CA 91951-0985	(619) 477-5333 Fax: (619) 477-5380 bio@psbs.com	R. Mitchel Beauchamp	Biological, Botany, Habitat Assessments, Oak Tree Assessments, Wetlands Delineations
Tom Dodson & Associates	2150 N. Arrowhead Ave. San Bernardino, CA 92405	(909) 882-3612 Fax: (909) 882-7015 tda@stonramp.com	Lisa C. Kegarice	Biological, CEQA, Wetland Delineations Species: AT, DT
Trestles	909 Glendora Dr. Oceanside, CA 92057	(949) 246-3117	Julie Fontaine	Wetland, Riparian, Restoration
TRC	21 Technology Dr. Irvine, CA 92618	(949) 727-9336 Fax: (949) 727-7377		Biological, CEQA, EIR

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TSS Consultants	3264 Hudson Ave Walnut Creek, CA 94597	(925) 256-9185 scashen@tssconsultants.com	Scott Cashen	Biological, EIS, Natural Resource Assessments, Forestry Species: Sensitive
Ultrasystems Environmental Inc.	100 Pacifica Ste 250 Irvine, CA 92618	(949) 788-4900 Fax (949) 788-4901 blindsay@ultrasystems.com	Betsy Lindsay Bob Motschall	Biological, Environmental
URS Corporation	10723 Bell Court Rancho Cucamonga, CA 91730	(909) 980-4000 Fax (909) 980-2643 planning@urscorp.com jeff_rice@urscorp.com	Jeffry S. Rice	Biological, CEQA, NEPA, Air and Water Quality, Noise, Hydrology
Vandermost Consulting Services, Inc.	27312 Calle Arroyo San Juan Capistrano, CA 92675	(949) 489-2700 Fax (949) 489-0309 jvandermost@vandermostconsulting.com	Julie Vandermost	Biological, CEQA, Wetlands Delineations
VHBC, Incorporated	6895 Ironwood Dr Riverside, CA 92506	(951) 789-1015 Fax: (951) 789-1015 vhbcinc@earthlink.net	Victor M. Horchar	Biological Assessments, Wetlands, HANS Species: BUOW, DT, NEPS

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Wagner, William D.	61116 Devils Ladder Rd Mountain Center, CA 92561	(909) 659-5858 Fax (909) 659-6022 bwagner2002@earthlink.net	William D. Wagner	Biological
Wegscheider, Frank J.	207 San Anselmo Ln. Placentia, CA 92870	(714) 993-9249 wegscheider@fullerton.edu	Frank J. Wegscheider	Biological, HERP & FS wet/dry surveys
White & Leatherman BioServices (now see) Scott White Biological Consulting & Leatherman BioConsulting				
Abbreviation Key				

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ACOE = U.S. Army Corps of Engineers			HERP = Herpetological Surveys (reptiles & amphibians)	
AKR = Aguanga Kangaroo Rat			HCP = Habitat Conservation Plan	
AT = arroyo toad			LAPM = Los Angeles Pocket Mouse	
BUOW = burrowing owl			LBVI = least Bell's vireo	
CAGN = coastal California gnatcatcher			MOGS = Mohave Ground Squirrel	
CAS = Criteria Area Species (MSHCP, Section 6.3.2)			MSHCP = Multiple-Species Habitat Conservation Plan	
CDFG = California Department of Fish & Game			MYLF = Mountain Yellow-Legged Frog	
CEQA = California Environmental Quality Act			NEPA = National Environmental Protection Act	
CRLF = California Red-Legged Frog			NEPS = Narrow Endemic Plant Species (MSHCP, Section 6.1.3)	
CWA = Clean Water Act			OAK = Oak Tree Species	
DSFLF = Delhi Sands Flower-loving Fly			QCB = Quino checkerspot butterfly	
DT = Desert Tortoise			RAPS = Rare Plant Species	
EIR = Environmental Impact Report (State)			RRVP = Riparian/Riverine/Vernal Pools (MSHCP, Section 6.1.2)	
EIS = Environmental Impact Statement (Federal)			SBKR = San Bernardino Kangaroo Rat	
ERP = Expedited Review Process (MSHCP)			SKR = Stephen's Kangaroo Rat	
ESA = Endangered Species Act			SWWF = southwestern willow flycatcher	
FS = Fairy Shrimp (aquatic invertebrates)			T&E Species = Threatened and Endangered Species	
FTHL = Flat-tailed Horned Lizard			USFWS = U.S. Fish & Wildlife Service	
FRTL = Fringe-toed Lizard			YBCU = Yellow-Billed Cuckoo	
HANS = Habitat Acquisition and Negotiation Strategy (MSHCP)				